

## ABSTRACT OF THE DISCLOSURE

The invention provides thin film coatings that have a transparent base layer. For example, the invention provides low-emissivity coatings with a transparent base layer.

- 5 In certain embodiments, a silicon dioxide base layer is used. Methods of producing thin film coatings having a transparent base layer are provided as well. In one embodiment, sputter deposition is utilized to produce these coatings.

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